



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
Group Art Unit 2834

Patent Application of

Paul Steven Mullin, et al.

Application No. 10/730,153

Confirmation No. 2172

Filed: December 8, 2003

Examiner: Not Yet Known

"ELECTRIC MACHINE"

I, Kerry Dake, hereby certify that this correspondence is being deposited with the US Postal Service as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date of my signature.


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INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 CFR §1.97(b)

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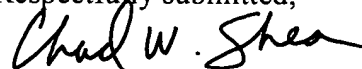
Sir:

The Examiner's attention is directed to the references which are listed on the attached Form PTO/SB/08A (10 pages) and PTO/SB/08B (1 page).

Citation of these references is respectfully requested.

No concession is made that these documents are prior art, and Applicant expressly reserves the right to antedate the documents as may be appropriate.

Respectfully submitted,

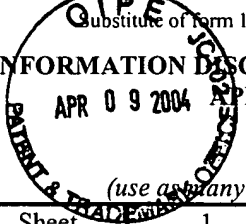


Chad W. Shea
Reg. No. 48,470

File No. 010121-9954-00
Michael Best & Friedrich LLP
100 East Wisconsin Avenue
Milwaukee, Wisconsin 53202-4108
(262) 956-6560

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 Substitution of Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	10/730,153		
		Filing Date	December 8, 2003		
		First Name Inventor	Paul Steven Mullin		
		Group Art Unit	2834		
		Examiner Name	Not Yet Known		
Sheet	1	of	10	Attorney Docket Number	010121-9954-00

U.S. PATENT DOCUMENTS

Examiner Initials	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
	RE36,860	Muller	9/12/2000
	4,230,976	Muller	10/28/1980
	4,376,261	von der Heide et al.	3/8/1983
	5,130,591	Sato	7/14/1992
	5,349,275	Muller	9/20/1994
	5,767,639	Sakaguchi et al.	6/16/1998
	6,211,635	Kambe et al.	4/3/2001
	6,271,638	Erdman et al.	8/7/2001
	6,307,337	Nelson	10/23/2001
	6,348,752	Erdman et al.	2/19/2002
	6,414,408	Erdman et al.	7/2/2002
	6,479,957	Erdman et al.	11/12/2002
	6,061,724	Ries et al.	5/9/2000
	6,183,136	Dingman	2/6/2001
	4,641,422	Weaver	2/10/1987
	RE32,654	Jackson, Jr.	4/26/1988
	4,758,751	Hosoya et al.	7/19/1988

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Examiner Initials		U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
		5,030,867	Yamada et al.	7/9/1991
		5,298,826	Lee et al.	3/29/1994
		5,684,352	Mita et al.	11/4/1997
		6,069,428	Nelson	5/30/2000
		6,204,584	Muszynski	3/20/2001
		4,973,872	Dohogne	11/27/1990
		5,488,260	Heyraud	1/30/1996
		5,627,423	Marioni	5/6/1997
		6,069,421	Smith et al.	5/30/2000
		2001/0024068	Aizawa et al.	9/27/2001
		2003/0178903	Rapp	9/25/2003
		3,969,645	Spotts et al.	7/13/1976
		4,338,535	Kohzai et al.	7/6/1982
		4,482,832	Minton	11/13/1984
		4,573,003	Lipo	2/25/1986
		4,600,864	Sato	7/15/1986
		4,701,654	Tatukawa et al.	10/20/1987

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U.S. PATENT DOCUMENTS				
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		4,998,032	Burgbacher	3/5/1991
		5,170,083	Burgbacher	12/8/1992
		5,331,245	Burgbacher et al.	7/19/1994
		5,343,104	Takahashi et al.	8/30/1994
		5,436,519	Takahashi et al.	7/25/1995
		5,659,217	Petersen	8/19/1997
		5,670,836	Horst	9/23/1997
		RE35,763	Burgbacher	4/7/1998
		5,783,890	Mulgrave	7/21/1998
		5,844,346	Kolomeitsev et al.	12/1/1998
		6,194,800	Maruyama et al.	2/27/2001
		6,335,582	Abukawa et al.	1/1/2002
		6,522,046	Ikeda et al.	2/18/2003
		2002/0021052	Asao	2/21/2002
		4,086,533	Ricouard et al.	4/25/1978
		4,546,300	Shaikh	10/8/1985
		4,603,664	Jackson	8/5/1986

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		4,618,797	Cline	10/21/1986
		4,728,834	Kumar et al.	3/1/1988
		5,394,043	Hsai	2/28/1995
		5,629,574	Cognetti et al.	5/13/1997
		6,118,198	Hollenbeck et al.	9/12/2000
		6,133,666	Hollenbeck et al.	10/17/2000
		6,232,687	Hollenbeck et al.	5/15/2001
		6,271,609	Hollenbeck et al.	8/7/2001
		6,300,695	Neal	10/9/2001
		6,310,455	Siraky et al.	10/30/2001
		6,362,554	Neal	3/26/2002
		6,437,464	Neal	8/20/2002
		6,532,193	Fehse et al.	3/11/2003
		6,617,721	Neal	9/9/2003
		2002/0109426	Peter et al.	8/15/2002
		4,427,462	Senno et al.	1/24/1984
		4,473,766	Obergfell et al.	9/25/1984

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U.S. PATENT DOCUMENTS				
Examiner Initials		U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
		5,927,249	Ackermann et al.	7/27/1999
		4,847,527	Dohogne	7/11/1989
		4,992,688	Cap et al.	2/12/1991
		5,148,070	Frye et al.	9/15/1992
		5,461,270	Didier	10/24/1995
		5,877,574	Molnar	3/2/1999
		5,996,209	Molnar et al.	12/7/1999
		6,232,687	Hollenbeck et al.	5/15/2001
		6,239,532	Hollenbeck et al.	5/29/2001
		6,324,745	Poag et al.	12/4/2001
		6,497,035	Ratliff	12/24/2002
		2003/0098660	Erdman et al.	5/29/2003
		4,883,997	DeCesare	11/28/1989
		4,942,323	DeCesare	7/17/1990
		5,248,911	Joseph	9/28/1993
		5,345,129	Molnar	9/6/1994
		5,881,447	Molnar	3/16/1999

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Examiner Initials	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
	5,881,448	Molnar	3/16/1999
	6,501,202	Whaley	12/31/2002
	4,007,390	Muller et al.	2/8/1977
	4,174,484	Schmider	11/13/1979
	4,181,867	Muller	1/1/1980
	4,217,508	Uzuka	8/12/1980
	4,259,603	Uchiyama et al.	3/31/1981
	4,540,906	Blom	9/10/1985
	4,604,665	Muller et al.	8/5/1986
	4,647,803	von der Heide et al.	3/3/1987
	4,668,898	Harms et al.	5/26/1987
	4,698,542	Muller	10/6/1987
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	4,882,511	von der Heide	11/21/1989
	4,992,162	Shiraki et al.	5/1/1990
	4,934,014	Yamamoto	6/19/1990
	4,934,041	Hoover et al.	6/19/1990

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U.S. PATENT DOCUMENTS				
Examiner Initials		U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
		5,008,573	Beppu et al.	4/16/1991
		RE33,813	von der Heide et al.	2/4/1992
		5,109,174	Shewell	4/28/1992
		RE34,268	Muller	6/1/1993
		5,252,873	Hamamoto et al.	10/12/1993
		5,319,270	Tanaka et al.	6/7/1994
		5,357,160	Kaneda et al.	10/18/1994
		5,394,043	Hsia	2/28/1995
		5,410,201	Tanaka et al.	4/25/1995
		5,457,350	Sakamaki et al.	10/10/1995
		5,552,653	Nose	9/3/1996
		5,578,883	Sakashita et al.	11/26/1996
		5,610,457	Kurita	3/11/1997
		5,610,458	Baker et al.	3/11/1997
		5,650,678	Yokozawa et al.	7/22/1997
		5,650,679	Boggs, III et al.	7/22/1997
		5,663,604	Takahashi	9/2/1997

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		5,783,880	Teshima et al.	7/21/1998
		5,798,589	Ohi et al.	8/25/1998
		5,818,133	Kershaw et al.	10/6/1998
		5,883,455	Fukasawa et al.	3/16/1999
		5,925,948	Matsumoto	7/20/1999
		5,982,066	Marracino et al.	11/9/1999
		5,990,589	Ushikoshi	11/23/1999
		6,005,312	Yamane	12/21/1999
		6,020,660	Wright	2/1/2000
		6,144,124	Nakagawa et al.	11/7/2000
		6,160,334	Teshima et al.	12/12/2000
		6,320,288	Suzuki et al.	11/20/2001
		3,912,956	Muller	10/14/1975
		4,554,473	Muller	11/19/1985
		5,783,881	Best et al.	7/21/1998
		3,805,134	Osamu et al.	4/16/1974
		3,809,935	Kristen et al.	5/7/1974

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		4,988,905	Tolmie, Jr.	1/29/1991
		3,024,377	Tupper	3/6/1962
		3,604,961	Saldinger	9/14/1971
		3,964,903	Deming	10/3/1972
		3,778,897	Bock et al.	12/18/1973
		3,983,621	Donahoo	10/5/1976
		4,013,910	Deming	3/22/1977
		4,134,035	Donahoo	1/9/1979
		4,638,201	Feigel	1/20/1987
		4,707,910	Saeed	11/24/1987
		4,769,567	Kurauchi et al.	9/6/1988
		4,910,420	Hoover et al.	3/20/1990
		5,086,245	Sieja et al.	2/4/1992
		5,107,159	Kordik	4/21/1992
		5,173,628	Yoshida et al.	12/22/1992
		5,258,697	Ford et al.	11/2/1993
		5,610,462	Takahashi	3/11/1997
		5,619,086	Steiner	4/8/1997
		5,627,424	Steiner	5/6/1997
		5,698,919	Obara	12/16/1997
		5,747,908	Saneshige et al.	5/5/1998
		5,796,204	Woo	8/18/1998

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FOREIGN PATENT DOCUMENTS						
Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
	GB	GB2072431A	Leung et al.	9/30/1981		X
	JP	JP1264556A	Eiichi	10/20/1989		X
	JP	JP2111248A	Shoei et al.	4/24/1990		X
	DE	DE29516656U1	ebm Electrobau Mlfingen GmbH	1/25/1996	Statement of Relevance	
	DE	DE3101629A1	Ruff	8/26/1982	Statement of Relevance	
	EP	EP0286905B1	Felgel et al.	7/28/1993	Statement of Relevance	
	EP	EP0376530A2	Archer et al.	7/4/1990		
	EP	EP0565312A2	Erdman et al.	10/13/1993		
	EP	EP0836008B1	Robba et al.	11/20/2002		
	EP	EP0926448B1	Martin et al.	6/30/1999		

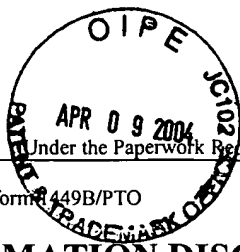
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			First Named Inventor	Paul Steven Mullin
			Group Art Unit	2834
			Examiner Name	Not Yet Known
			Attorney Docket Number	010121-9954-00
Sheet	1	of	1	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
		Statement of Relevance for foreign patent numbers DE3101629A1; DE29516656U1; and EP0286905B1; 1 page.
		ECLERCY et al.; Info; mvl Motoren Ventilatoren; Motoren Ventilatoren Landshut GmbH; September 2001; 8 pages.
		A. O. SMITH; Fractional Horsepower Motors and Specialty Blowers; Bulletin 7000; January 2001; 8 pages.
		BARBER-COLMAN COMPANY; Shaded-Pole Motors; Type GYAZ Reversible Geared Motors; Rockford, Illinois; February 1969; 2 pages.
		BARBER-COLMAN COMPANY; Shaded-Pole Motors; Types AYAE, DYAE, KYAE, OYAE Reversible for Electronic Control; Rockford, Illinois; August 1969; 2 pages.

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Examiner Signature		Date Considered	
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

**Statement of Relevance for:
DE 3101629 A1; DE 29516656 U1; and EP 0 286 905 B1.**

The German laying open publication **DE 3101629 A1**, which was filed on January 20, 1981 and published on August 26 1982, is assigned to TELDIX GmbH. As can be seen from Fig. 1, this document shows a collectorless DC motor. Reference numeral 4 designates the rotor, which is held by two bearing brackets 10 and 11. The stator is formed by several bobbins 18 to 21 that are arranged on the circuit boards 16 and 17. This document also seems to show a common fastener that holds together the two halves of the housing and the electronic circuitry through respectively aligned bores.

German utility model **DE 29516656 U1**, which is assigned to emb Elektrobau Mulfingen GmbH & Co., was filed on October 21, 1995 and published on January 25, 1996. This German utility model discloses a brushless DC motor having an external rotor. As can be seen, for instance, from Fig. 1, the electronic circuitry is mounted on a printed circuit board 12, which is arranged between the two bearing brackets 1 and 16.

EP 0 286 905 B1, assigned to Alcatel SEL, was published on July 28, 1993. This document relates to an electrically commutated collectorless DC motor, having a stator 3 with a stator winding 14 and a rotor opening formed therein. This document also discloses the feature of a control board 17, whereon all sensors 26 are provided. The DC motor, according to this reference, also comprises a printed circuit board 17 and two bearing shields 5 and 6 that have at least one bore for receiving the rotor bearings.